Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals	uals					0
DWR ID DWR_RD1500_01_s _ 2013_9							
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
RD 1500 h	as their O	&M Manual.					

No Photos

Issue No. Rating ** Α 55 LM Start Issue Type + Ма Location * N/A LM End Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR_RD1500_01_s _ 2013_55 DWR ID Comment Code

Inspector Comment

RD 1500 maintains a stockpile of flood response material.

No Photos

Rating ** Issue No. 61 LM Start Location * Issue Type + Ma N/A LM End GPS Latitude/Longitude Earthen Levee Category End Flood Preparedness & Training Item

No Photos

Comment Code

Inspector Comment

RD 1500 is current with it's flood response plans and training.

* Location LS: Land Side WS: Water Side

N/A: Not Applicable

DWR ID DWR_RD1500_01_s _ 2013_61

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	0.07	Rating **	С	Issue No.		137	
LM End	0.07	Issue Type +	Ма	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory	Category					End	
Item	Trim / Thi	n Trees		38.76107	7°	38.761077°	
пеш				-121.67585	1 °	-121.675851 °	
DWR ID	DWR ID DWR_RD1500_01_f _ 2016_137						
		0		I.			

Comment Code

T1: Trim trees to at least five feet above ground level.

Inspector Comment

Trim limbs on landside slope.

Rating ** С Issue No. 0.25 101 LM Start 0.25 Issue Type + Location * LS LM End Ma Earthen Levee GPS Latitude/Longitude Category Start End **Animal Control** 38.762385° 38.762385° Item -121.678428° -121.678428° DWR_RD1500_01_f _ 2017_101 DWR ID

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Single hole on landside slope. Recommend monitoring due to high rodent activity in area.

No Photos

No Photos

No Photos

LM Start	0.26	Rating **	С	Issue No.		155	
LM End	0.26	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start	End		
Animal Control				38.7625	84°	38.762584°	
item				-121.6785	42°	-121.678542°	
DWR ID DWR_RD1500_01_s _ 2017_155							
Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

* Location LS : Land Side

N/A: Not Applicable

WS: Water Side

U : Unacceptable

A : Acceptable M : Minimally Acceptable

C : Corrected

A/W : Acceptable but Monitor & Maintain

N : Not Inspected/Rated

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	0.29	Rating **	М	Issue No.		152		
LM End	0.29	Issue Type +	Ma	Location *		LS		
Catagony	evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Animal Co	ontrol		38.7629	45 °	38.762945 °		
пеш				-121.6788	12°	-121.678812°		
DWR ID DWR_RD1500_01_f _ 2018_152								
	Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Multiple holes on the landside slope.

Photo 1 of 1: FA_2018_RD1500_189_152_20180904_00074.jpg



View of rodent holes on landside slope. Spring 2017.

LM Start	0.32	Rating **	С	Issue No.		135
LM End	0.32	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Animal Co	ontrol		38.7632	65 °	38.763265
пеш				-121.6790	75°	-121.679075
DWR ID DWR_RD1500_01_f _ 2016_135						

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent hole halfway down landside slope.

No Photos

	LM Start	0.34	Rating **	С	Issue No.		151	
	LM End	0.34	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude				
	Calegory				Start		End	
	Item	Animal Co	ontrol		38.7634	73°	38.763473	0
	item				-121.6793	00°	-121.679300	0
	DWR ID	DWR_RD1	500_01_s _ 201	7_151				

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

Location

LS: Land Side

WS: Water Side

N/A: Not Applicable

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	0.37	Rating **	М	Issue No.	149		
LM End	0.37	Issue Type +	Ma	Location *		LS	
Category	evee		GPS Latitude/Longitude				
Calegory				Start		End	
Item	Animal Co	38.7638	26°	38.763826°			
item				-121.679787°		-121.679787°	
DWR ID	DWR_RD1	500_01_s _ 201	7_149				
		Comn	nent Coc	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
		Inspecto	or Comm	nent			

Multiple holes on landside slope.



View of rodent holes on landside slope. Spring 2017.

LM Start	0.56	Rating **	A/W	Issue No.		72		
LM End	0.82	Issue Type +	Ma	Location *	WS			
Category	evee	GPS Latitude/Longitude						
Calegory			Start	End				
Item	Vegetation				62°	38.764638°		
пеш				-121.6831	67°	-121.687690°		
DWR ID	DWR ID DWR_RD1500_01_s _ 2018_72							
Comment Code								
V/Q · Enviro	nmontal E	2 oquiromonto						

		Start	End						
Item	Vegetation	38.764462 °	38.764638°						
пеш		-121.683167 °	-121.687690°						
DWR ID	DWR ID DWR_RD1500_01_s _ 2018_72								
	Comment Code								
V8 : Environmental Requirements.									
	Inspector Comm	ent							

LM Start	0.56	Rating **	A/W	Issue No.	72 (cont)	
LM End	0.82	Issue Type +	Ma	Location *	WS	

Photo 1 of 2: FA_2018_RD1500_189_72_20180904_00028.jpg



View of the revegetation site on the waterward side toe of the levee looking upstream. Spring 2016.

Photo 2 of 2: FA_2018_RD1500_189_72_20180904_00029.jpg



Sign is located at the toe of the levee on the waterward side. Spring 2016.

Location + Issue Type N/A: Not Applicable Ma: Maintenance Deficiancy LS: Land Side A : Acceptable M : Minimally Acceptable N : Not Inspected/Rated WS: Water Side C : Corrected Ob : Design & System Obsolescence CR : Crown U : Unacceptable A/W : Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	1.10	Rating **	М	Issue No.		100		
LM End	1.10	Issue Type +	Ma	Location *		LS		
Category	evee	GPS La	atitud	e/Longitude				
Calegory			Start		End			
Item	Animal Co	ontrol		38.7674	07°	38.767407°		
item				-121.6915	89°	-121.691589°		
DWR ID	DWR_RD1	500_01_f _ 201	8_100					
		Comn	nent Cod	de				
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and		
Inspector Comment								
Multiple holes on landside slope and berm.								



View of hole on landside hope. Fall 2017.

LM Start	1.25	Rating **	М	Issue No.		99	
LM End	1.25	Issue Type +	Ma	Location *		LS	
Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Animal Control				74°	38.769274°	
item			-121.6917	00 °	-121.691700°		
DWR ID DWR_RD1500_01_f _ 2017_99							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Multiple rodent holes and mounds on landside slope.

LM Start	1.25	Rating **	M	Issue No.	99 (cont)
LM End	1.25	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2018_RD1500_189_99_20180904_00039.jpg



Updated view of rodent holes. Spring 2018

Photo 2 of 2 : FA_2018_RD1500_189_99_20180904_00040.jpg



View of holes and mounds on landside slope. Fall 2017.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	1.34	Rating **	A/W	Issue No.		85	
LM End	1.95	Issue Type +	Ma	Location *	WS		
Category	ental	GPS La	atitud	le/Longitude			
Calegory			Start		End		
Item		CE Erosion S	Survey,	38.7703	90°	38.777282°	
item	DRAFT			-121.6905	53°	-121.685841 °	
DWR ID DWR_RD1500_01_f _ 2018_85							
Comment Code							

Inspector Comment

2017 Site ID: SAC 86.3 L

Status: Eroding

2017 Field Notes: No observed change..

Site History: 2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011 - Cobble continues to unravel and additional slumping. 2012 - Minor new erosion at bank mid point. 2013 - Minor new erosion. 2016 - Toe relatively stable. Upper slope is over steepened.



USACE 2013 Photo #1

LM Start	1.68	Rating **	A/W	Issue No.		143		
LM End	1.68	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Animal Control				11°	38.773511°		
пеш				-121.6859	03 °	-121.685903°		
DWR ID DWR_RD1500_01_f _ 2018_143								
Comment Code								

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Active rodent site on the landside slope. Recommend monitoring.

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	2.30	Rating **	A/W	Issue No.		87		
LM End	2.52	Issue Type +	Ma	Location *	WS			
Category	ental	GPS Latitude/Longitude						
Calegory				Start		End		
Item		CE Erosion S	Survey,	38.78196	2°	38.784936 °		
пеш	DRAFT			-121.68803	3°	-121.690033 °		
DWR ID DWR_RD1500_01_f _ 2018_87								
	Comment Code							

Inspector Comment

2017 Site ID: SAC 87.1 L

Status: Eroding

2017 Field Notes: Large whole bank failure section in middle of site. Site History: 2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011 - New erosion pockets. 2012 - Minor new erosion at toe. 2013 - Minor new erosion. 2015 - Significant new toe erosion. 2016 - Fresh erosion on riverbank.



USACE 2013 Photo #1

LM Start	3.09	Rating **	С	Issue No.		129	
LM End	3.09	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Encroachi	ments		38.7911	78°	38.791178°	
item				-121.6856	68°	-121.685668 °	
DWR ID DWR_RD1500_01_s _ 2018_129							
Comment Code							

TR: Tree or limb

Inspector Comment

Large tree trunk on the levee toe.

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	4.36	Rating **	С	Issue No.		93	
LM End	4.36	Issue Type +	Ма	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Animal Co	ontrol		38.80302	°	38.803021	0
пеш				-121.69863	۱°	-121.698634	. 0
DWR ID	DWR ID DWR_RD1500_01_f _ 2017_93						

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Single hole less than 6" next to orchard found on landside slope. Recommend monitoring due to surrounding rodent activity.

Rating ** С Issue No. LM Start 4.50 127 Issue Type + Location * LS LM End 4.50 Ma Earthen Levee GPS Latitude/Longitude Category Start Fnd Trim / Thin Trees 38.803759° 38.803759° Item -121.701127° -121.701127° DWR_RD1500_01_s _ 2018_127 DWR ID

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

No Photos

Rating ** Issue No. A/W LM Start 6.24 136 6.24 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Start End Erosion / Bank Caving 38.811093° 38.811093° Item -121.722790° -121.722790 DWR ID DWR_RD1500_01_f _ 2018_136

Comment Code

E1: Note and monitor erosion site.

Inspector Comment

Minor runoff on the waterside slope. Recommend monitoring.

No Photos

* Location

N/A: Not Applicable

LS: Land Side WS: Water Side

A : Acceptable M : Minimally A Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	7.15	Rating **	С	Issue No.		217	
LM End	7.15	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee				atitud	e/Longitude	
Calegory		Start		End			
Item	Trim / Thin Trees				19°	38.824119	0
item				-121.722776°		-121.722776	0
DWR ID DWR_RD1500_01_s _ 2018_217							
		Comn	nent Coc	de			
T1: Trim t	rees to at I	east five feet	above g	round level.			
	Inspector Comment						

No Photos

LM Start	9.40	Rating **	A/W	Issue No.		74	
LM End	9.57	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee				GPS Latitude/Longitude		
Category	Category			Start		End	
Item	Vegetatio	n		38.85020	67°	38.852564°	
пеш				-121.7232	75 °	-121.723179°	
DWR ID	R ID DWR_RD1500_01_s _ 2012_74						
Comment Code							

V8: Environmental Requirements.

Inspector Comment

LM Start	9.40	Rating **	A/W	Issue No.	74 (cont)
LM End	9.57	Issue Type +	Ma	Location *	WS

Photo 1 of 2: FA_2018_RD1500_189_74_20180904_00030.jpg



View of the revegetation site along the edge of the berm on the waterward side of the levee looking downstream. Spring 2016.

Photo 2 of 2: FA_2018_RD1500_189_74_20180904_00031.jpg



Sign for the revegetation site by USACE.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Maintenance Deficiancy

M : Minimally Acceptable CR : Corrected Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Not Applicable M : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	9.71	Rating **	A/W	Issue No.	162		
LM End	9.71	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee				GPS Latitude/Longitude		
Category			Start		End		
ltom	Slope Sta	bility		38.85356	64 °	38.853564	
пеш	Item				79°	-121.725379	
DWR ID	DWR ID DWR_RD1500_01_s _ 2017_162						
	Comment Code						

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Area heavily accessed by trailer residents and fishermen. Recommend monitoring.

Photo 1 of 1: FA_2018_RD1500_189_162_20180904_00076.jpg



View of slope stability on waterside slope. Spring 2017.

LM Start	10.25	Rating **	M	Issue No.		115		
LM End	10.25	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Category					End		
Item	Animal Co	ontrol		38.85958	85 °	38.859585 °		
пеш	item				88°	-121.729188°		
DWR ID DWR_RD1500_01_f _ 2018_115								
	0 10 1							

Comment Code

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

Active rodent holes at the landside toe.

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	11.80	Rating **	A/W	Issue No.	88		
LM End	12.26	Issue Type +	Ma	Location *		WS	
Category	Suppleme	ental	GPS Latitude/Longitude				
Category				Start		End	
Item		2017 USACE Erosion Survey,			48 °	38.869139°	
пеш	DRAFT			-121.7493	49 °	-121.757108°	
DWR ID DWR_RD1500_01_f _ 2018_88							
Comment Code							

Inspector Comment

2017 Site ID: SAC 95.8 L

12.01

12.01

Earthen Levee

Erosion / Bank Caving

Status: Eroding

2017 Field Notes: Sites 95.8 and 96.2 combined.

Site History: 1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steal) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at the downstream end. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 -Minor new erosion. 2011 - Minor new erosion at the toe. 2015 - Fresh

slumping

LM Start

LM End

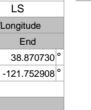
Category

Item

DWR ID

Photo 1 of 1 : FA_201	8_RD1500 _.	_189_116	_20180904	_00052.jpg
Market Contract To a service	ALL SHIP HOLD	Colonia de	Comment of the last	The same of
				A STATE OF THE PARTY OF THE PAR

No Photos



116

LS

End

GPS Latitude/Longitude

DWR_RD1500_01_s _ 2017_116 Comment Code

Rating **

Issue Type +

М

E2: Schedule repair of erosion site prior to the next inspection.

Issue No.

Location *

Start

38.870730°

-121.752908 °

Inspector Comment

Runoff erosion on landside levee slope.



View of erosion on landside slope. Spring 2017.

Page 11 of 18

C : Corrected

N: Not Inspected/Rated

+ Issue Type Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

Ph

LM Start	12.57	Rating **	U	Issue No.		118	
LM End	12.57	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory			Start		End		
Item Erosion / Bank Caving			38.8671	08°	38.867108°		
пеш				-121.761498°		-121.761498°	
DWR ID	DWR ID DWR_RD1500_01_f _ 2015_118						
		Comn	nent Cod	de			
E2 : Scheo	lule repair	of erosion site	e prior to	the next in	spe	ction.	
		Inspecto	or Comm	nent			
Recomme	nd backfilli	ng erosion.					

Ма

Issue No.

Location *

118 (cont)

WS

oto 1	of 2 : F	A_2018_	_RD1500_	_189_11	8_2018	1018_00	233.jpg	
		Ale .	Wall French					
	Tiva -	74			The state of			
						Wild I		
							D.	
		常数。			D		M.	
					AGE S			
			4					
		***	Contra			内。		
		4-1			13.14	0 17 2018		

Updated view of erosion on the landside slope. Fall 2018.

Photo 2 of 2: FA_2018_RD1500_189_118_20180904_00054.jpg



View of the erosion on the waterward side of the levee looking upstream. Fall 2015.

LM Start	14.28	Rating **	A/W	Issue No.	89		
LM End		Issue Type +	Ма	Location *		WS	
Category Supplemental				GPS Latitude/Longitude			
Category				Start		End	
Item	2017 USACE Erosion Survey,			38.861899°		38.857239°	
item	DRAFT			-121.7840	57°	-121.783771 °	
DWR ID	DWR_RD1	500_01_f _ 201	8_89				
Comment Code							

Inspector Comment

2017 Site ID: SAC 99.0 L

12.57

12.57

LM Start

LM End

Rating **

Issue Type +

Status: Eroding

2017 Field Notes: Rock continues to unravel.

Site History: 1997 - Intermittent toe failure of the hand placed riprap;

failure of toe materials.



USACE 2013 Photo #1

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	18.38	Rating **	A/W	Issue No.	ue No. 80		
LM End	19.06	Issue Type +	Ma	Location *		WS	
Category				GPS Latitude/Longitude			
Category			Start		End		
Item		2017 USACE Erosion Survey,			37°	38.902721 °	
пеш	DRAFT			-121.8011	75°	-121.790677°	
DWR ID	DWR_RD1	8_80					
	Comment Code						

Inspector Comment

2017 Site ID: SAC 104.0 L

Status: Eroding

2017 Field Notes: Bank slope is relatively stable.

Site History: 1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011 - Old cobble continue to fail causing minor slumping. 2012 - Portions of site appears to be stabilizing. 2016- Cobble revetment continues to fail.



USACE 2013 Photo #1

LM Start	19.16 Rating ** A/W			Issue No.	81		
LM End	19.47	Issue Type + Ma		Location *		WS	
Category			GPS Latitude/Longitude				
Calegory				Start		End	
Item		ACE Erosion S	Survey,	38.9040	41 °	38.906697°	
пеш	DRAFT	DRAFT			98°	-121.792796°	
DWR ID	DWR_RD1	8_81		·			

Inspector Comment

Comment Code

2017 Site ID: SAC 104.5 L

Status: Eroding

2017 Field Notes: Site appears stable.

Site History: 1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011 - Some

minor new erosion.

Photo 1 of 1: FA_2018_RD1500_189_81_20181023_00043.jpg



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	21.01	Rating **	М	Issue No. 105			
LM End	21.01	Issue Type +	Ma	Location *		LS	
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Item	Animal Co	Animal Control			22 °	38.911322°	
пеш				-121.8040	78°	-121.804078 °	
DWR ID	DWR_RD1	500_01_f _ 201	8_105				
	Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes on the landside slope.

No Photos



View of rodent holes on the landside slope. Fall 2018.

LM Start	21.10	Rating **	М	Issue No.		103
LM End	21.10	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Animal Control			38.9125	11°	38.912511°
пеш				-121.8033	55 °	-121.803355°
DWR ID	DWR_RD1	500_01_f _ 201	8_103			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes at the landside toe.

LM Start	24.34 Rating ** C		Issue No.		97		
LM End	24.34	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Trim / Thin Trees			38.9387	84°	38.938784	0
пеш			-121.8294	05°	-121.829405	0	
DWR ID	DWR_RD1	500_01_f _ 201	7_97				

Comment Code

T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

Location

LS: Land Side N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	24.57	Rating **	М	Issue No.		102		
LM End	24.57	Issue Type +	Ма	Location *	LS			
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Animal Control			38.94136	0	38.941361	0	
пеш			-121.831899	°	-121.831899	0		
DWR ID DWR_RD1500_01_f _ 2018_102								
	0							

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes at the landside toe.

No Photos



View of rodent holes on the landside slope. Fall 2018.

Photo 1 of 1: FA_2018_RD1500_189_92_20181018_00228.jpg

LM Start	25.50	Rating **	М	Issue No.		95
LM End	25.50	Issue Type +	Ма	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory						End
Item	Animal Co	Animal Control			67°	38.952967°
item					30°	-121.837730°
DWR ID	DWR_RD1	500_01_f _ 201	8_95			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes on the landside slope.

LM Start	28.23	Rating **	М	Issue No.		92
LM End	28.23	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee	GPS La	atitud	le/Longitude	
Calegory			Start		End	
Item	Animal Co	ontrol	38.9832	21°	38.983221 °	
item			-121.8198	95°	-121.819895 °	
DWR ID	DWR RD1	500 01 f 201	8 92			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes at the landside toe.



View of rodent holes on the landside slope. Fall 2018.

Location

N/A: Not Applicable

LS: Land Side WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	30.60	Rating **	A/W	Issue No.		82	
LM End	30.75	Issue Type +	Ma	Location *	WS		
Category	Supplemental				GPS Latitude/Longitude		
Category				Start		End	
Item		017 USACE Erosion Survey,			45 °	39.001413°	
пеш	DRAFT			-121.80089	98 °	-121.802889°	
DWR ID DWR_RD1500_01_f _ 2018_82							
Comment Code							

Inspector Comment

2017 Site ID: SAC 116.0 L

Status: Eroding

2017 Field Notes: Minor new erosion throughout the site.
Site History: 2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps.
2004 - Some minor new erosion. 2006 - Some new erosion, cleaned off older scars and slump faces. 2008 - New, small, partial rotational failure. 2011 - Some new minor erosion. 2016 - Fresh erosion on lower bank.

Photo 1 of 1 : FA_2018_RD1500_189_82_20181023_00047.jpg

USACE 2013 Photo #1

LM Start	30.94	Rating **	A/W	Issue No.		83	
LM End	31.60	Issue Type +	Ma	Location *	WS		
Category	Category				GPS Latitude/Longitude		
Category				Start		End	
Item		CE Erosion S	Survey,	39.0033	01°	39.006072°	
пеш	DRAFT			-121.8050	24°	-121.815926°	
DWR ID DWR_RD1500_01_f _ 2018_83							
	Comment Code						

Inspector Comment

2017 Site ID: SAC 116.5 L

Status: Eroding

2017 Field Notes: pipe and pump encroachment. site has been stable for a few years.

Site History: 2003 - New sedimentation and some new small toe scallops at the upstream end; downstream end has some new erosion. 2004 - Some new erosion at the toe and upper bank and some small new rotational failures (mainly minor, except at the downstream end). 2007 - Some new slumps. 2009 - Some new scallops and site was extended upstream. 2010 - New deposition along upstream end of site, however there is also new erosion throughout the site. Site seems to be worsening, and eroding fast. Large habitat for bank swallows. 2011 - Some new minor erosion. 2012 - Minor new erosion. 2016 - Fresh erosion on lower bank.

Photo 1 of 1: FA 2018 RD1500 189 83 20181023 00048.jpg



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	31.54	Rating **	A/W	Issue No.	86		
LM End	31.54	Issue Type +	sue Type + Ma Location * LS			LS	
Category	Earthen Levee					e/Longitude	
Calegory						End	
Item	Encroachments			39.0066	87°	39.006687°	
item				-121.8149	67°	-121.814967°	
DWR ID	DWR_RD1	500_01_s _ 201	6_86				
	Comment Code						
MW : Monitoring Well							

Inspector Comment

UCIP installed this monitoring station for seepage in the area. Monitor for vandilism or damagePN: (18630).

LM Start	31.54	Rating **	A/W	Issue No.	86 (cont)
LM End	31.54	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2018_RD1500_189_86_20180904_00034.jpg



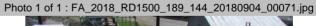
View of the pizometer on the landward side of the levee. Spring 2016.

Photo 2 of 2: FA_2018_RD1500_189_86_20180904_00035.jpg



The control unit for pizometers installed in 2012, photo taken spring

LM Start	32.98	Rating **	М	Issue No.		144			
LM End	32.98	Issue Type +	Ма	Location *		LS			
Category	Catagory Earthen Levee					GPS Latitude/Longitude			
Category				Start		End			
Item	Erosion / I	Bank Caving		39.0207	'82 °	39.020782°			
пеш				-121.8202	75°	-121.820275°			
DWR ID	DWR ID DWR_RD1500_01_s _ 2017_144								
		Comn	nent Cod	de					
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.			
	Inspector Comment								
Runoff erosion on landside slope.									





View of erosion on landside slope. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/16/2018 10/18/2018	Zach Jojola

LM Start	32.98	Rating **	М	Issue No.	107		
LM End	32.98	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS La	atituc	le/Longitude	
Calegory				Start		End	
ltom	Animal Co	ontrol		39.0208	74°	39.020874°	
Item		-121.820266 °		-121.820266 °			
DWR ID	DWR_RD1	500_01_f _ 201	6_107				
		Comn	nent Cod	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
		Inspecto	or Comm	nent			
	4,000						

Photo 1 of 1: FA_2018_RD1500_189_107_20180904_00044.jpg



View of rodent burrows on landside slope. Fall 2016.

LM Start	32.99	Rating **	A/W	Issue No.		106
LM End	32.99	Issue Type +	Ma	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Itom	Erosion / Bank Caving			39.0210	16°	39.021016°
Item				-121.82020	61 °	-121.820261 °
DWR ID	DWR_RD1500_01_f _ 2016_106					
		Cama	ant Car	ام		

Comment Code

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

No Photos

LM Start	33.05	Rating **	A/W	Issue No.		91	
LM End	33.05	Issue Type +	Ma	Location *		LS	
Category	GPS La	atitud	le/Longitude				
Calegory				Start		End	
Item	Erosion /	Erosion / Bank Caving			65°	39.021865	0
item				-121.8203	56°	-121.820356	0
DWR ID	DWR_RD1	500_01_f _ 201	8_91				
Comment Code							

E1: Note and monitor erosion site.

Inspector Comment

Minor runoff erosion on the landside slope. Recommend monitoring.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	0.13	Rating **	A/W	Issue No.	39			
LM End	0.13	Issue Type +	Ma	Location *		LS		
LIVI ENG	0.13	issue Type T	ivia	Location		LO		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
				Start		End		
Item	Animal Co	ontrol		38.7624	29°	38.762429°		
пеш				-121.6729	24°	-121.672924°		
DWR ID	DWR_RD1	DWR_RD1500_02_f _ 2017_39						
		Comn	nent Cod	de				
A3 : No ro compact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and		
		Inspecto	or Comm	nent				
Rodent ho	le near lan	dside toe.						



View of rodent hole on landside slope. Fall 2017.

LM Start	0.14	Rating **	M	Issue No.		16
LM End	0.14	Issue Type +	Ma	Location *		LS
Category	evee	GPS La	titud	e/Longitude		
Calegory				Start		End
Item	Animal Control			38.7625	64 °	38.762564°
item				-121.6727	71 °	-121.672771 °
DWR ID	DWR_RD1500_02_f _ 2018_16					
		Cama	ant Car	ام		

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Multiple holes on the landside slope.

Photo 1 of 1 : FA_2018_RD1500_190_16_20181018_00041.jpg



View of rodent holes on the landside slope. Fall 2018.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		43
LM End	1.92	Issue Type +	Ма	Location *		
Category Supplemental				GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCIP LMA Responsibility			38.78386	65°	38.783865 °
item				-121.65517	70°	-121.655170°
DWR ID	20020					

Inspector Comment

Comment Code

FS_ID:28886 DS_ID:20020 EP_NO: N/A

FS Date: 1/21/2014

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.

Plant No. 3] 1 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].

 LM Start
 1.92
 Rating **
 A/W
 Issue No.
 43 (cont)

 LM End
 1.92
 Issue Type +
 Ma
 Location *



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).



WS view: motorized slide gates in CM shed on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		43 (cont)	
LM End	1.92	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Category				Start		End	
Item	DWR UCIP LMA Responsibility			38.78386	5 °	38.783865	0
item				-121.65517)°	-121.655170	0
DWR ID	20020						

Inspector Comment

Comment Code

FS_ID:28886 DS_ID:20020 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on

waterside shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 1 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].

FS Date: 1/21/2014



LS view: pump house at the end of levee berm.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		44		
LM End	1.92	Issue Type +	Ma	Location *				
Category	Supplemental			GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	P LMA Respo	onsibility	38.7838	85 °	38.783885 °		
item				-121.6551	58°	-121.655158°		
DWR ID	20027							

Inspector Comment

Comment Code

FS_ID:28883 DS_ID:20027 EP_NO: N/A

FS Date: 1/21/2014

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.

Plant No. 3] 2 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].

 LM Start
 1.92
 Rating **
 A/W
 Issue No.
 44 (cont)

 LM End
 1.92
 Issue Type +
 Ma
 Location *



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).



WS view: motorized slide gates in CM shed on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		44 (cont)	
LM End	1.92	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Lat	itud	e/Longitude	
Calegory			Start		End		
Item	DWR UCI	IP LMA Respo	onsibility	38.78388	5°	38.783885 °	0
пеш				-121.65515	8°	-121.655158 °	0
DWR ID	20027						

Inspector Comment

Comment Code

FS_ID:28883 DS_ID:20027 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on

waterside shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 2 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 129, June 1954, (Station 1227+00)].

Photo 3 of 3 : UCIP_FA_2018_28883_53084.jpg

LS view: pump house at the end of levee berm.

FS Date: 1/21/2014

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		45			
LM End	1.92	Issue Type +	Ма	Location *					
Category	Supplemental			Supplemental			GPS La	ituc	le/Longitude
Calegory						End			
Item	DWR UCI	P LMA Respo	nsibility	38.78390	4 °	38.783904°			
пеш				-121.65514	9°	-121.655149°			
DWR ID	20028								

Comment Code

Inspector Comment

FS_ID:28884 DS_ID:20028 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.

Plant No. 3] 3 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].

FS Date: 1/21/2014

LM Start	1.92	Rating **	A/W	Issue No.	45 (cont)
LM End	1.92	Issue Type +	Ma	Location *	



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).



WS view: motorized slide gates in CM shed on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	45 (cont)		
LM End	1.92	Issue Type +	Ма	Location *			
Category			Supplemental			e/Longitude	
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	nsibility	38.78390	4 °	38.783904	٥
пеш					9°	-121.655149	0
DWR ID	20028						

Inspector Comment

Comment Code

FS ID:28884 DS_ID:20028 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on

waterside shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 3 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 129, June 1954, (Station 1227+00)].

FS Date: 1/21/2014



LS view: pump house at the end of levee berm.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		Issue No.		46
LM End	1.92	Issue Type +	Ма	Location *				
Category	Catagon			GPS La	atitud	e/Longitude		
Calegory						End		
Item	DWR UCI	P LMA Respo	nsibility	38.7839	24°	38.783924 °		
пеш		,			40°	-121.655140 °		
DWR ID	20029							

Inspector Comment

Comment Code

FS_ID:28885 DS_ID:20029 EP_NO: N/A

FS Date: 1/21/2014

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.

Plant No. 3] 4 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].

 LM Start
 1.92
 Rating **
 A/W
 Issue No.
 46 (cont)

 LM End
 1.92
 Issue Type +
 Ma
 Location *



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).



WS view: motorized slide gates in CM shed on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.		46 (cont)	
LM End	1.92	Issue Type +	Ма	Location *			
Category	Suppleme	ental	GPS Latitude/Longitude				
Calegory				Start	Start		
Itom	DWR UCI	P LMA Respo	nsibility	38.78392	4 °	38.783924	٥
пеш	Item		-121.65514	o°	-121.655140	0	
DWR ID	20029						

Inspector Comment

Comment Code

FS_ID:28885 DS_ID:20029 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 4 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment

concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M

Manual 129, June 1954, (Station 1227+00)].

FS Date: 1/21/2014



LS view: pump house at the end of levee berm.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.		47		
LM End	1.93	Issue Type +	Ма	Location *				
Category	Suppleme	ental		Supplemental		GPS La	titud	e/Longitude
Calegory				Start		End		
Item	DWR UCI	P LMA Respo	nsibility	38.78409	97°	38.784097 °		
пеш				-121.65507	73 °	-121.655073°		
DWR ID	20019							

Inspector Comment

Comment Code

FS_ID:28954 DS_ID:20019 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: USED Bench Mark on concrete structure at waterside

shoulder.

PIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 1 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014

LM Start	1.93	Rating **	A/W	Issue No.	47 (cont)
LM End	1.93	Issue Type +	Ma	Location *	



WS view: U type concrete headwall and flap gates on levee toe.

Photo 2 of 3: UCIP FA 2018 28954 53259.jpg



WS view: concrete surge structure on waterside shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.		47 (cont)
LM End	1.93	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	e/Longitude	
Calegory				Start		End
ltom	DWR UCI	P LMA Respo	nsibility	38.78409)7°	38.784097°
ltem			-121.65507	'3 °	-121.655073 °	
DWR ID	20019					·

Inspector Comment

Comment Code

FS_ID:28954 DS_ID:20019 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: USED Bench Mark on concrete structure at waterside

shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 1 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014



WS view: USED Bench Mark on concrete structure on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.		48
LM End	1.93	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	e/Longitude	
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.78411	1 °	38.784111 °
пеш				-121.65506	7°	-121.655067 °
DWR ID	20025					

Inspector Comment

Comment Code

FS_ID:28955 DS_ID:20025 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: USED Bench Mark on concrete structure at levee

shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 2 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014

LM Start	1.93	Rating **	A/W	Issue No.	48 (cont)
LM End	1.93	Issue Type +	Ma	Location *	



WS view: U type concrete headwall and flap gates on levee toe.

Photo 2 of 3: UCIP FA 2018 28955 53263.jpg



WS view: concrete surge structure on waterside shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.		48 (cont)
LM End	1.93	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Latitude/Longitude		
Calegory			Start			End
Item	DWR UCI	P LMA Respo	nsibility	38.78411	۱°	38.784111 °
пеш				-121.65506	7 °	-121.655067 °
DWR ID	20025					

Inspector Comment

Comment Code

FS_ID:28955 DS_ID:20025 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: USED Bench Mark on concrete structure at levee

shoulder.

PIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 2 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014



WS view: USED Bench Mark on concrete structure at levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.		49		
LM End	1.93	Issue Type +	Ма	Location *				
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCI	P LMA Respo	nsibility	38.78412	27°	38.784127°		
пеш				-121.6550	57°	-121.655057°		
DWR ID	20026							

Inspector Comment

Comment Code

FS_ID:28956 DS_ID:20026 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: USED Bench Mark on concrete structure at waterside

shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 3 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014

LM Start	1.93	Rating **	A/W	Issue No.	49 (cont)
LM End	1.93	Issue Type +	Ma	Location *	



WS view: U type concrete headwall and flap gates on levee toe.

Photo 2 of 3: UCIP FA 2018 28956 53268.jpg



WS view: U type concrete headwall and flap gates on levee toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.	49 (cont)		
LM End	1.93	Issue Type +	Ма	Location *			
Category	Suppleme	GPS Latitude/Longitude					
Calegory				Start End			
Item	DWR UCI	P LMA Respo	nsibility	38.78412	27 °	38.784127°	
пеш				-121.65505	57 °	-121.655057°	
DWR ID 20026							
	Comment Code						

Inspector Comment

FS_ID:28956 DS_ID:20026 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: USED Bench Mark on concrete structure at waterside shoulder.

FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 3 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014



WS view: USED Bench Mark on concrete structure at levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.		50
LM End	1.98	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.78478	3°	38.784783 °
пеш				-121.65479	11°	-121.654791 °
DWR ID	20088					

Inspector Comment

Comment Code

FS_ID:28891 DS_ID:20088 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 1 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].

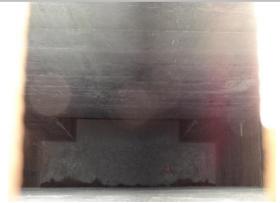
 LM Start
 1.98
 Rating **
 A/W
 Issue No.
 50 (cont)

 LM End
 1.98
 Issue Type +
 Ma
 Location *



WS view: slide gate in concrete box on levee shoulder.

Photo 2 of 3: UCIP_FA_2018_28891_53136.jpg



WS view: inside view of concrete box on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.		50 (cont)
LM End	1.98	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.78478	3°	38.784783 °
пеш				-121.65479	1 °	-121.654791 °
DWR ID	20088					

Inspector Comment

Comment Code

FS ID:28891 DS_ID:20088 EP_NO: 10088

FS Date: 1/21/2014

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 1 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78inch concrete conduits referenced].

Photo 3 of 3: UCIP_FA_2018_28891_53135.jpg



WS view: outfall structure on levee toe and concrete box on levee shoulder.

N: Not Inspected/Rated C : Corrected

Ma : Maintenance Deficiancy

+ Issue Type

Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.		51	
LM End	1.98	Issue Type +	Ма	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	onsibility	38.78481	3°	38.784818	0
пеш				-121.65477	3°	-121.654778	0
DWR ID	20092						

Inspector Comment

Comment Code

FS_ID:28892 DS_ID:20092 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 2 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].

 LM Start
 1.98
 Rating **
 A/W
 Issue No.
 51 (cont)

 LM End
 1.98
 Issue Type +
 Ma
 Location *



WS view: outfall structure on levee toe and concrete box on levee shoulder.

Photo 2 of 3: UCIP_FA_2018_28892_53146.jpg



WS view: slide gate in concrete box on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.		51 (cont)
LM End	1.98	Issue Type +	Ма	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	38.78481	8 °	38.784818°
пеш				-121.65477	'8	-121.654778°
DWR ID	20092					

Inspector Comment

Comment Code

FS_ID:28892 DS_ID:20092 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 2 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].

FS Date: 1/21/2014



WS view: inside view of concrete box on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.99	Rating **	A/W	Issue No.		52
LM End	1.99	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	itud	e/Longitude
Calegory				Start		End
Item	DWR UCI	P LMA Respo	nsibility	38.78485	6°	38.784856 °
пеш				-121.65476	2 °	-121.654762 °
DWR ID	20093					

Inspector Comment

Comment Code

FS_ID:28893 DS_ID:20093 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 3 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].

 LM Start
 1.99
 Rating **
 A/W
 Issue No.
 52 (cont)

 LM End
 1.99
 Issue Type +
 Ma
 Location *



WS view: slide gate in concrete box on levee shoulder.

Photo 2 of 3: UCIP_FA_2018_28893_53156.jpg



WS view: inside view of concrete box on levee shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	1.99	Rating **	A/W	Issue No.		52 (cont)	
LM End	1.99	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	nsibility	38.78485	6°	38.784856 °	
пеш				-121.65476	2 °	-121.654762°	
DWR ID	20093					·	

Inspector Comment

Comment Code

FS_ID:28893 DS_ID:20093 EP_NO: 10088

Repair Type: No Action Needed Crossing Status: Found

Refrigerator on waterside slope.

UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 3 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].

Photo 3 of 3: UCIP_FA_2018_28893_53155.jpg



WS view: outfall structure on levee toe and concrete box on levee shoulder.

LM Start	4.47	Rating **	С	Issue No.		42	
LM End	4.47	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
ltem Encroachments		38.819837°		38.819837	٥		
Item				-121.663433 °		-121.663433	0
DWR ID	DWR_RD1	500_02_f _ 201	7_42				
		Comn	nent Coo	de			
DE : Debri	s						
		Inspecto	or Comm	nent			

No Photos

* Location	** Rating		+ Issue Type		
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy		
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence		
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement		

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	4.59	Rating **	С	Issue No.		41				
LM End	4.59	Issue Type +	Ma	Location *		WS				
Category	evee	GPS La	atitud	e/Longitude						
Category						End				
Item	Encroachi	ments		38.8215	37°	38.821537°				
пеш			-121.6636	56°	-121.663656 °					
DWR ID	DWR ID DWR_RD1500_02_f _ 2017_41									
		Comn	nent Cod	de						
DE : Debri	S									
Inspector Comment										
Refrigerator on waterside slope.										

No Photos

LM Start	14.13	Rating **	U	Issue No.		4			
LM End	14.13	Issue Type +	Ma	Location *	LS				
Category	evee	GPS La	atitud	le/Longitude					
Calegory			Start			End			
Item	Undersee	page Relief W	38.9476	28°	38.947628°				
ILEIII				-121.669764°		-121.669764°			
DWR ID	DWR_RD1	500_02_s _ 201	2_4						
Comment Code									

Inspector Comment

Concrete pad and PVC underneath is broken.



View of underseepage relief well. Concrete pad as well as PVC pipes underneath are destroyed apparently by an attempt to pull out the head of the well. Fall 2016.

LM Start	14.13	Rating **	U	Issue No.	4 (cont)
LM End	14.13	Issue Type +	Ma	Location *	LS





Another view of damaged well. Fall 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	14.13	Rating **	U	Issue No.		4 (cont)		
LM End	14.13	Issue Type +	Ma	Location *	LS			
Catagony	Earthen L	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End		
Underseepage Relief Wells				38.947628°		38.947628°		
item				-121.669764°		-121.669764°		
DWR ID	DWR_RD1500_02_s _ 2012_4							
Comment Code								
Inspector Comment								
Concrete pad and PVC underneath is broken.								

Photo 3 of 3: FA_2018_RD1500_190_4_20180904_00003.jpg



View of the relief well at historical boil 12. Fall 2015.

LM Start	14.47	Rating **	A/W	Issue No.		11	
LM End	14.47	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Underseepage Relief Wells			38.951413°		38.951413°	
пеш				-121.673856 °		-121.673856°	
DWR ID	DWR_RD1500_02_s _ 2012_11						
Comment Code							

Inspector Comment

Photo 1 of 1: FA_2018_RD1500_190_11_20180904_00004.jpg



A relief well at historical boil 16. Fall 2015.

LM Start	18.17	Rating **	A/W	Issue No.		13		
LM End	18.17	Issue Type +	Ма	Location *	LS			
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory						End		
Item	Underseepage Relief Wells			38.987031 °		38.987031 °		
пеш			-121.725049°		-121.725049°			
DWR ID	R ID DWR_RD1500_02_s _ 2012_13							
	Comment Code							
Inspector Comment								

Photo 1 of 2: FA_2018_RD1500_190_13_20180904_00006.jpg



Two of four drains on the landward side of the levee. Fall 2015.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/18/2018 10/18/2018	Zach Jojola

LM Start	18.17	Rating **	A/W	Issue No.	13 (cont)		
LM End	18.17	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End			
Item	Undersee	page Relief W	/ells	38.9870	31 °	38.987031 °	
пеш				-121.725049°		-121.725049°	
DWR ID DWR_RD1500_02_s _ 2012_13							
Comment Code							
			_				
Inspector Comment							



View of the 4 drains at the levee toe on the landward side. Fall 2015.

LM Start	18.43	Rating **	A/W	Issue No.	15		
LM End	18.43	Issue Type +	Ma	Location *	LS		
Catagoria Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Underseepage Re			/ells	38.989962°		38.989962°	
пеш				-121.727896 °		-121.727896°	
DWR ID	DWR ID DWR_RD1500_02_s _ 2015_15						
	Comment Code						
Inspector Comment							



View of the toe drainage at the landward toe berm. Fall 2015.